

AMENDMENT TO THE CLAIMS:

24. (currently amended) An electrochemical cell,
5 comprising:

a positive electrode folded in a zigzag configuration
having folds and creases; and

at least one bifold negative electrode having a first
leg and a second leg, said first leg and said second leg
10 disposed within a first and a second fold on the same side
of the zigzag configuration of said electrode; and

an aqueous alkaline electrolyte,
wherein said positive electrode comprises a nickel
hydroxide material and/or said at least one negative
15 electrode comprises a hydrogen storage alloy.

Claims 25, 26 (canceled)

27. (previously amended) The electrochemical cell of claim
20 24, wherein said positive electrode comprises a nickel
hydroxide material.

28. (previously amended) The electrochemical cell of claim
24, wherein said at least one negative electrode comprises
25 a hydrogen storage alloy.

Claims 29, 30 (canceled)

31. (previously amended) The electrochemical cell of claim
30 24, wherein said first leg and said second leg are disposed
in adjacent folds on the same side of the zigzag
configuration of said positive electrode.

32. (previously amended) The electrochemical cell of claim
24, wherein said at least one bifold negative electrode is
a plurality of bifold negative electrodes, each of said
5 bifold negative electrodes having a first leg and a second
leg.

33. (previously amended) The electrochemical cell of claim
32, wherein said plurality of bifold negative electrodes
10 are disposed over alternating creases on each side of the
zigzag configuration of said positive electrode.

Claims 34-37 (canceled)

15 38. (currently amended) An electrochemical cell,
comprising:

an electrode stack including a positive electrode
disposed between a first and a second negative electrode,
said electrode stack folded in a zigzag configuration with
20 folds and creases; and

an aqueous alkaline electrolyte,
wherein said positive electrode comprises a nickel
hydroxide material and/or said negative electrodes comprise
a hydrogen storage alloy.

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Claim 39, 40 (canceled)

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41. (previously amended) The electrochemical cell of claim 38, wherein said positive electrode comprises a nickel hydroxide material.

5 42. (previously amended) The electrochemical cell of claim 38, wherein said negative electrodes comprise a hydrogen storage alloy.

Claims 43, 44 (canceled)

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45. (previously amended) The electrochemical cell of claim 38, further comprising a hydrophobic material disposed in at least one of the folds of the zigzag configuration of said electrode stack.

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46. (previously amended) The electrochemical cell of claim 38, wherein said electrode stack further comprises a first and a second hydrophobic layer, each of said hydrophobic layers disposed on an outer face of a corresponding
20 negative electrode, said electrode stack folded to form said zigzag configuration.

47. (previously added) An electrochemical cell, comprising:

25 a negative electrode folded in a zigzag configuration having folds and creases; and

at least one bifold positive electrode having a first leg and a second leg, said first leg and said second leg disposed within a first and a second fold on the same side
30 of the zigzag configuration of said electrode,

wherein said at least one positive electrode comprises a nickel hydroxide material and/or said negative electrode comprises a hydrogen storage alloy.

5 48. (previously added) The electrochemical cell of claim 47, wherein said at least one positive electrode comprises a nickel hydroxide material.

49. (previously added) The electrochemical cell of claim
10 47, wherein said negative electrode comprises a hydrogen storage alloy.

50. (previously added) The electrochemical cell of claim 47, wherein said first leg and said second leg are disposed
15 in adjacent folds on the same side of the zigzag configuration of said negative electrode.

51. (previously added) The electrochemical cell of claim 47, wherein said at least one bifold positive electrode is
20 a plurality of bifold positive electrodes, each of said bifold positive electrodes having a first leg and a second leg.

52. (previously added) The electrochemical cell of claim
25 51, wherein said plurality of bifold positive electrodes are disposed over alternating creases on each side of the zigzag configuration of said negative electrode.

53. (currently amended) An electrochemical cell,
30 comprising:

an electrode stack including a negative electrode disposed between a first and a second positive electrode,

said electrode stack folded in a zigzag configuration with folds and creases; and

an aqueous alkaline electrolyte,

wherein said positive electrodes comprise a nickel

5 hydroxide material and/or said negative electrode comprises a hydrogen storage alloy.

54. (previously added) The electrochemical cell of claim 53, wherein said positive electrodes comprise a nickel
10 hydroxide material.

55. (previously added) The electrochemical cell of claim 53, wherein said negative electrode comprises a hydrogen
15 storage alloy.

56. (previously added) The electrochemical cell of claim 53, further comprising a hydrophobic material disposed in at least one of the folds of the zigzag configuration of said electrode stack.

20 57. (previously added) The electrochemical cell of claim 53, wherein said electrode stack further comprises a first and a second hydrophobic layer, each of said hydrophobic layers disposed on an outer face of a corresponding
25 positive electrode, said electrode stack folded to form said zigzag configuration.

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